



Course Name: Cloud Programming using Web Services

(UG/PG): PG

Number of Credits: 3

Level: 4

Learning Objective(s): On successful completion of the course the students should have:

Learn the purpose of how to do the programming in cloud computing

Learn to design the architecture of cloud computing.

Understand the knowledge discovery process.

Pedagogy:

Lectures
class work
Class room discussion
Case study
Hands on Exercise

Pre-learning:

Good knowledge of cloud environment in terms of customization.

Course Outline:

Sr.No	Topic	Hours
1	Cloud Computing Software-as-a-service: SaaS Platform-as-a-service: PaaS Hardware-as-a-service: HaaS Infrastructure-as-a-service: IaaS	9
2	Google Cloud Infrastructure Google File System Search engine MapReduce	8
3	Grid Computing Amazon Web Services REST APIs SOAP API Query API User Authentication	8
4	Simple Storage Service – S3 Overview Buckets Objects ACL Logging Signed URI	8

5	S3 Applications Elastic Cloud Compute - EC2 Overview Keypairs Network Types LAN Gateways and Router IP Classes and Subnets CIDR Utilities Instances Management Image Management Security groups Connecting to the Cloud OpenSSH Keys Tunneling / Port Forwarding	12
	Total	45

Books Recommended:

Suggested Evaluation Methods:

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered

Name of Member					
Designation					
Org. / Inst.					
Signature					

Name of the Expert:

Signature:

Date:

